

## **Abstract**

The invention concerns a method to analyze the pressure variation in a perfusion device including multiple perfusion modules each equipped with a pump to deliver a liquid to be perfused in a line placed downstream from the pump as well as a means to measure the pressure in the line, with junction points enabling connection of certain lines among each other or certain lines with lines from units outside the perfusion device. This process consists first in determining whether there is an acceptable explanation for a pressure variation (increase or reduction in the flow rate in a module) and whether this variation concerns modules other than that which detected it first, and which ones, to then act on the perfusion device according to the result of this analysis, either by modifying the analytical parameters in the various modules affected if the pressure variation has an acceptable explanation or by simultaneously stopping all the modules affected by this variation in flow rate and by dealing with the source of the malfunction (rupture or obstruction).